

Sequence Listing

<110> Botstein,David
Desnoyers,Luc
Ferrara,Napoleone
Fong,Sherman
Gao,Wei-Qiang
Goddard,Audrey
Gurney,Austin L.
Pan,James
Roy,Margaret Ann
Stewart,Timothy A.
Tumas,Daniel
Watanabe,Colin K.
Wood,William I.

<120> Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

<130> P2930R1C11

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Arg	Leu	Gly	Glu	Pro	Glu	Asp	Cys	Ala	Gly	Ile	Val	Ser	Phe	Leu	
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 35 40 45
 Phe Val Pro Arg Pro His Thr Ala Pro Leu Gly Gly Ala His Ala
 50 55 60
 His Val Leu Gly Met Val Pro Pro Ala Cys Leu Pro Gly Asp Glu
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 Val Gly Ser Glu Gln Arg Gly Glu Gln Val Thr Asn Gly Arg Glu
 80 85 90
 Ala Gly Ala Glu Leu Leu Thr Glu Val Asn Arg Leu Gly Ser Gly
 95 100 105

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Pro Glu Leu Cys	Leu Glu Glu Leu Asp Ala Ala Ile Pro Gly Ser	
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Pro Pro Ala Thr	Ala Ser Glu Trp Arg Leu Ala Gln Ala Gln Gln	
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 50 55 60
 Leu Ser Leu Lys Glu Thr Arg Arg Cys Gly Ser Thr Cys Thr Phe
 65 70 75
 Trp Pro Cys Phe Glu Leu Cys Cys Pro Glu Ser Phe Gly Pro Gln
 80 85 90
 Gln Lys Phe Leu Val Lys Leu Arg Val Leu Gly Met Lys Ser Gln
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Glu	Leu	Gly	Arg	Pro	Ala	Arg	Asp	Glu	Gly	Gly	Ser	Gly	Arg	Asp
				65					70					75

Trp	Lys	Ser	Lys	Ser	Gly	Arg	Gly	Leu	Ala	Gly	Arg	Glu	Pro	Trp
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Ser	Lys	Leu	Lys	Gln	Ala	Trp	Val	Ser	Gln	Gly	Gly	Gly	Ala	Lys
				95					100					105

Ala	Gly	Asp	Leu	Gln	Val	Arg	Pro	Arg	Gly	Asp	Thr	Pro	Gln	Ala
				110					115					120

Glu	Ala	Leu	Ala	Ala	Ala	Ala	Gln	Asp	Ala	Ile	Gly	Pro	Glu	Leu
				125					130					135

Ala	Pro	Thr	Pro	Glu	Pro	Pro	Glu	Glu	Tyr	Val	Tyr	Pro	Asp	Tyr
				140					145					150

Arg	Gly	Lys	Gly	Cys	Val	Asp	Glu	Ser	Gly	Phe	Val	Tyr	Ala	Ile
				155					160					165

Gly	Glu	Lys	Phe	Ala	Pro	Gly	Pro	Ser	Ala	Cys	Pro	Cys	Leu	Cys
				170					175					180

Thr	Glu	Glu	Gly	Pro	Leu	Cys	Ala	Gln	Pro	Glu	Cys	Pro	Arg	Leu
				185					190					195

His	Pro	Arg	Cys	Ile	His	Val	Asp	Thr	Ser	Gln	Cys	Cys	Pro	Gln
				200					205					210

Cys	Lys	Glu	Arg	Lys	Asn	Tyr	Cys	Glu	Phe	Arg	Gly	Lys	Thr	Tyr
				215					220					225

Gln	Thr	Leu	Glu	Glu	Phe	Val	Val	Ser	Pro	Cys	Glu	Arg	Cys	Arg
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230	235	240
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245	250	255
Gln Thr Glu Cys Val Asp Pro Val Tyr Glu Pro Asp Gln Cys Cys		
260	265	270
Pro Ile Cys Lys Asn Gly Pro Asn Cys Phe Ala Glu Thr Ala Val		
275	280	285
Ile Pro Ala Gly Arg Glu Val Lys Thr Asp Glu Cys Thr Ile Cys		
290	295	300
His Cys Thr Tyr Glu Glu Gly Thr Trp Arg Ile Glu Arg Gln Ala		
305	310	315
Met Cys Thr Arg His Glu Cys Arg Gln Met		
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<220>
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<400> 12
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<220>
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<400> 13
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<210> 14
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
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<210> 15
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 <212> DNA
 <213> Homo sapiens

<400> 15

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<211> 437

<212> PRT

<213> Homo sapiens

<400> 16

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Leu	Pro	Gly	Val	Gln	Ala	Leu	Leu	Cys	Gln	Phe	Gly	Thr	Val	Gln
				20					25					30

His	Val	Trp	Lys	Val	Ser	Asp	Leu	Pro	Arg	Gln	Trp	Thr	Pro	Lys
				35					40					45

Asn	Thr	Ser	Cys	Asp	Ser	Gly	Leu	Gly	Cys	Gln	Asp	Thr	Leu	Met
				50					55					60

Leu	Ile	Glu	Ser	Gly	Pro	Gln	Val	Ser	Leu	Val	Leu	Ser	Lys	Gly
				65					70					75

Cys	Thr	Glu	Ala	Lys	Asp	Gln	Glu	Pro	Arg	Val	Thr	Glu	His	Arg
				80					85					90

Met	Gly	Pro	Gly	Leu	Ser	Leu	Ile	Ser	Tyr	Thr	Phe	Val	Cys	Arg
				95					100					105

Gln	Glu	Asp	Phe	Cys	Asn	Asn	Leu	Val	Asn	Ser	Leu	Pro	Leu	Trp
				110					115					120

Ala	Pro	Gln	Pro	Pro	Ala	Asp	Pro	Gly	Ser	Leu	Arg	Cys	Pro	Val
				125					130					135

Cys	Leu	Ser	Met	Glu	Gly	Cys	Leu	Glu	Gly	Thr	Thr	Glu	Glu	Ile
				140					145					150

Cys	Pro	Lys	Gly	Thr	Thr	His	Cys	Tyr	Asp	Gly	Leu	Leu	Arg	Leu
				155					160					165

Arg	Gly	Gly	Gly	Ile	Phe	Ser	Asn	Leu	Arg	Val	Gln	Gly	Cys	Met
				170					175					180

Pro	Gln	Pro	Gly	Cys	Asn	Leu	Leu	Asn	Gly	Thr	Gln	Glu	Ile	Gly
				185					190					195

Pro	Val	Gly	Met	Thr	Glu	Asn	Cys	Asn	Arg	Lys	Asp	Phe	Leu	Thr
				200					205					210

Cys	His	Arg	Gly	Thr	Thr	Ile	Met	Thr	His	Gly	Asn	Leu	Ala	Gln
				215					220					225

Glu	Pro	Thr	Asp	Trp	Thr	Thr	Ser	Asn	Thr	Glu	Met	Cys	Glu	Val
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230	235	240
Gly Gln Val Cys Gln Glu Thr Leu Leu Leu Ile Asp Val Gly Leu		
245	250	255
Thr Ser Thr Leu Val Gly Thr Lys Gly Cys Ser Thr Val Gly Ala		
260	265	270
Gln Asn Ser Gln Lys Thr Thr Ile His Ser Ala Pro Pro Gly Val		
275	280	285
Leu Val Ala Ser Tyr Thr His Phe Cys Ser Ser Asp Leu Cys Asn		
290	295	300
Ser Ala Ser Ser Ser Ser Val Leu Leu Asn Ser Leu Pro Pro Gln		
305	310	315
Ala Ala Pro Val Pro Gly Asp Arg Gln Cys Pro Thr Cys Val Gln		
320	325	330
Pro Leu Gly Thr Cys Ser Ser Gly Ser Pro Arg Met Thr Cys Pro		
335	340	345
Arg Gly Ala Thr His Cys Tyr Asp Gly Tyr Ile His Leu Ser Gly		
350	355	360
Gly Gly Leu Ser Thr Lys Met Ser Ile Gln Gly Cys Val Ala Gln		
365	370	375
Pro Ser Ser Phe Leu Leu Asn His Thr Arg Gln Ile Gly Ile Phe		
380	385	390
Ser Ala Arg Glu Lys Arg Asp Val Gln Pro Pro Ala Ser Gln His		
395	400	405
Glu Gly Gly Gly Ala Glu Gly Leu Glu Ser Leu Thr Trp Gly Val		
410	415	420
Gly Leu Ala Leu Ala Pro Ala Leu Trp Trp Gly Val Val Cys Pro		
425	430	435

Ser Cys

<210> 17
 <211> 2387
 <212> DNA
 <213> Homo sapiens

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 ccaagactcg ctacgaggat gtcaaccccg tgctattgtc gggccccgag 200

gctccgtggc gggaccctga gctgctggag gggacctgca ccccggtgca 250
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 <212> PRT
 <213> Homo sapiens

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 20 25 30
 Ser Leu Leu Glu Pro Arg Asp Pro Val Ala Ser Ser Leu Ser Pro
 35 40 45
 Tyr Phe Gly Thr Lys Thr Arg Tyr Glu Asp Val Asn Pro Val Leu
 50 55 60
 Leu Ser Gly Pro Glu Ala Pro Trp Arg Asp Pro Glu Leu Leu Glu
 65 70 75
 Gly Thr Cys Thr Pro Val Gln Leu Val Ala Leu Ile Arg His Gly
 80 85 90
 Thr Arg Tyr Pro Thr Val Lys Gln Ile Arg Lys Leu Arg Gln Leu
 95 100 105
 His Gly Leu Leu Gln Ala Arg Gly Ser Arg Asp Gly Gly Ala Ser

110										115					120				
Ser	Thr	Gly	Ser	Arg	Asp	Leu	Gly	Ala	Ala	Leu	Ala	Asp	Trp	Pro					
				125					130					135					
Leu	Trp	Tyr	Ala	Asp	Trp	Met	Asp	Gly	Gln	Leu	Val	Glu	Lys	Gly					
				140					145					150					
Arg	Gln	Asp	Met	Arg	Gln	Leu	Ala	Leu	Arg	Leu	Ala	Ser	Leu	Phe					
				155					160					165					
Pro	Ala	Leu	Phe	Ser	Arg	Glu	Asn	Tyr	Gly	Arg	Leu	Arg	Leu	Ile					
				170					175					180					
Thr	Ser	Ser	Lys	His	Arg	Cys	Met	Asp	Ser	Ser	Ala	Ala	Phe	Leu					
				185					190					195					
Gln	Gly	Leu	Trp	Gln	His	Tyr	His	Pro	Gly	Leu	Pro	Pro	Pro	Asp					
				200					205					210					
Val	Ala	Asp	Met	Glu	Phe	Gly	Pro	Pro	Thr	Val	Asn	Asp	Lys	Leu					
				215					220					225					
Met	Arg	Phe	Phe	Asp	His	Cys	Glu	Lys	Phe	Leu	Thr	Glu	Val	Glu					
				230					235					240					
Lys	Asn	Ala	Thr	Ala	Leu	Tyr	His	Val	Glu	Ala	Phe	Lys	Thr	Gly					
				245					250					255					
Pro	Glu	Met	Gln	Asn	Ile	Leu	Lys	Lys	Val	Ala	Ala	Thr	Leu	Gln					
				260					265					270					
Val	Pro	Val	Asn	Asp	Leu	Asn	Ala	Asp	Leu	Ile	Gln	Val	Ala	Phe					
				275					280					285					
Phe	Thr	Cys	Ser	Phe	Asp	Leu	Ala	Ile	Lys	Gly	Val	Lys	Ser	Pro					
				290					295					300					
Trp	Cys	Asp	Val	Phe	Asp	Ile	Asp	Asp	Ala	Lys	Val	Leu	Glu	Tyr					
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Leu	Asn	Asp	Leu	Lys	Gln	Tyr	Trp	Lys	Arg	Gly	Tyr	Gly	Tyr	Thr					
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Ile	Asn	Ser	Arg	Ser	Ser	Cys	Thr	Leu	Phe	Gln	Asp	Ile	Phe	Gln					
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His	Leu	Asp	Lys	Ala	Val	Glu	Gln	Lys	Gln	Arg	Ser	Gln	Pro	Ile					
				350					355					360					
Ser	Ser	Pro	Val	Ile	Leu	Gln	Phe	Gly	His	Ala	Glu	Thr	Leu	Leu					
				365					370					375					
Pro	Leu	Leu	Ser	Leu	Met	Gly	Tyr	Phe	Lys	Asp	Lys	Glu	Pro	Leu					
				380					385					390					
Thr	Ala	Tyr	Asn	Tyr	Lys	Lys	Gln	Met	His	Arg	Lys	Phe	Arg	Ser					
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 His Cys Glu Asn Ala Lys Thr Pro Lys Glu Gln Phe Arg Val Gln
 425 430 435
 Met Leu Leu Asn Glu Lys Val Leu Pro Leu Ala Tyr Ser Gln Glu
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 Thr Val Ser Phe Tyr Glu Asp Leu Lys Asn His Tyr Lys Asp Ile
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 <212> DNA
 <213> Homo sapiens

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 ccca 3554

<210> 20
 <211> 310
 <212> PRT
 <213> Homo sapiens

<400> 20

Met	Ala	Leu	Arg	Arg	Pro	Pro	Arg	Leu	Arg	Leu	Cys	Ala	Arg	Leu	1	5	10	15
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Ala	Val	Asn	Leu	Lys	Ser	Ser	Asn	Arg	Thr	Pro	Val	Val	Gln	Glu	35	40	45	
Phe	Glu	Ser	Val	Glu	Leu	Ser	Cys	Ile	Ile	Thr	Asp	Ser	Gln	Thr	50	55	60	
Ser	Asp	Pro	Arg	Ile	Glu	Trp	Lys	Lys	Ile	Gln	Asp	Glu	Gln	Thr	65	70	75	
Thr	Tyr	Val	Phe	Phe	Asp	Asn	Lys	Ile	Gln	Gly	Asp	Leu	Ala	Gly	80	85	90	
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Thr	Arg	Arg	Asp	Ser	Ala	Leu	Tyr	Arg	Cys	Glu	Val	Val	Ala	Arg	110	115	120	
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Gln	Val	Lys	Pro	Val	Thr	Pro	Val	Cys	Arg	Val	Pro	Lys	Ala	Val	140	145	150	
Pro	Val	Gly	Lys	Met	Ala	Thr	Leu	His	Cys	Gln	Glu	Ser	Glu	Gly	155	160	165	
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Lys	Asp	Asp	Ser	Gly	Gln	Tyr	Tyr	Cys	Ile	Ala	Ser	Asn	Asp	Ala	215	220	225	
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Leu	Ala	Leu	Ile	Thr	Leu	Gly	Ile	Cys	Cys	Ala	Tyr	Arg	Arg	Gly	260	265	270	
Tyr	Phe	Ile	Asn	Asn	Lys	Gln	Asp	Gly	Glu	Ser	Tyr	Lys	Asn	Pro	275	280	285	
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 35 40 45
 Asp Thr Ser Glu Glu Ala Leu Leu Leu Pro Asp Trp Leu Lys Leu
 50 55 60
 Arg Met Ile Arg Ser Glu Val Leu Arg Leu Val Asp Ala Ala Leu
 65 70 75
 Gln Asp Leu Glu Pro Gln Gln Leu Leu Leu Phe Val Gln Ser Phe
 80 85 90
 Gly Ile Pro Val Ser Ser Met Ser Lys Leu Leu Gln Phe Leu Asp
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Asp	Lys	Asn	Tyr	Met	Ala	His	Leu	Val	Glu	Val	Gln	His	Glu	Arg	
				125					130					135	
Gly	Ala	Ser	Gly	Gly	Gln	Thr	Phe	His	Ser	Leu	Leu	Thr	Ala	Ser	
				140					145					150	
Leu	Pro	Pro	Arg	Arg	Asp	Ser	Thr	Glu	Ala	Pro	Lys	Pro	Lys	Ser	
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Ser	Pro	Glu	Gln	Pro	Ile	Gly	Gln	Gly	Arg	Ile	Arg	Val	Gly	Thr	
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Gln	Leu	Arg	Val	Leu	Gly	Pro	Glu	Asp	Asp	Leu	Ala	Gly	Met	Phe	
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Leu	Gln	Ile	Phe	Pro	Leu	Ser	Pro	Asp	Pro	Arg	Trp	Gln	Ser	Ser	
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Ser	Pro	Arg	Pro	Val	Ala	Leu	Ala	Leu	Gln	Gln	Ala	Leu	Gly	Gln	
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Thr	Val	Arg	Val	Leu	Gln	Ala	Leu	Ala	Thr	Leu	Leu	Ser	Ser	Pro	
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Pro	Gln	Asp	Thr	Gly	Phe	Ser	Ser	Leu	Phe	Leu	Lys	Val	Leu	Leu	
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Arg	Arg	Leu	Ser	Asp	Val	Arg	Gly	Gly	Leu	Leu	Arg	Leu	Ala	Glu	
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Arg	Ala	Val	Ile	Ala	Thr	Leu	Arg	Ser	Gly	Glu	Gln	Cys	Ser	Val	
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Thr	Ala	Asp	Ala	Ala	Ser	Pro	Phe	Pro	Ala	Cys	Lys	Pro	Val	Val					
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Gly	Lys	Pro	Gly	Ala	Asp	Gly	Gly	Ser	Leu	Glu	Ala	Val	Arg	Leu					
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Gly	Pro	Ser	Ser	Gly	Leu	Leu	Val	Asp	Trp	Leu	Glu	Met	Leu	Asp					
				455					460					465					
Pro	Glu	Val	Val	Ser	Ser	Cys	Pro	Asp	Leu	Gln	Leu	Arg	Leu	Leu					
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Phe	Ser	Arg	Arg	Lys	Gly	Lys	Gly	Gln	Ala	Gln	Val	Pro	Ser	Phe					
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Arg	Pro	Tyr	Leu	Leu	Thr	Leu	Phe	Thr	His	Gln	Ser	Ser	Trp	Pro					
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Thr	Leu	His	Gln	Cys	Ile	Arg	Val	Leu	Leu	Gly	Lys	Ser	Arg	Glu					
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Gln	Arg	Phe	Asp	Pro	Ser	Ala	Ser	Leu	Asp	Phe	Leu	Trp	Ala	Cys					
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Ile	His	Val	Pro	Arg	Ile	Trp	Gln	Gly	Arg	Asp	Gln	Arg	Thr	Pro					
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Gln	Lys	Arg	Arg	Glu	Glu	Leu	Val	Leu	Arg	Val	Gln	Gly	Pro	Glu					
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Leu	Ile	Ser	Leu	Val	Glu	Leu	Ile	Leu	Ala	Glu	Ala	Glu	Thr	Arg					
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Ser	Gln	Asp	Gly	Asp	Thr	Ala	Ala	Cys	Ser	Leu	Ile	Gln	Ala	Arg					
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Arg	Lys	Val	Thr	Glu	His	Leu	Ser	Gly	Cys	Ile	Gln	Gln	Trp	Gly					
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Asp	Ser	Val	Leu	Gly	Arg	Arg	Cys	Arg	Asp	Leu	Leu	Leu	Gln	Leu					
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Tyr	Leu	Gln	Arg	Pro	Glu	Leu	Arg	Val	Pro	Val	Pro	Glu	Val	Leu					
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Arg	Lys	Leu	Ala	Val	Ala	His	Pro	Leu	Leu	Leu	Leu	Arg	His	Leu	710	715	720
Pro	Met	Ile	Ala	Ala	Leu	Leu	His	Gly	Arg	Thr	His	Leu	Asn	Phe	725	730	735
Gln	Glu	Phe	Arg	Gln	Gln	Asn	His	Leu	Ser	Cys	Phe	Leu	His	Val	740	745	750
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Pro	Ala	Ala	Ile	Ser	Phe	Leu	Gln	Lys	His	Ala	Asp	Pro	Leu	His	815	820	825
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Pro	Leu	Val	Ser	Val	Ser	Leu	Phe	Thr	Pro	Leu	Thr	Ala	Ala	Glu	875	880	885
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Met	Ser	Ser	Ala	Glu	Glu	Cys	Cys	Arg	Asn	Leu	Ala	Phe	Ser	Leu	935	940	945
Ala	Leu	Arg	Ser	Met	Gln	Asn	Ser	Pro	Ser	Ile	Ala	Ala	Ala	Phe	950	955	960
Leu	Pro	Thr	Phe	Met	Tyr	Cys	Leu	Gly	Ser	Gln	Asp	Phe	Glu	Val	965	970	975
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980

985

990

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Ser	Glu	Arg	Gln	Ala	Leu	Arg	Asp	Gly	Asp	Gly	Asn	Arg	Thr	Trp		80	85	90
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His	Arg	His	Val	Leu	His	Leu	Pro	Thr	Val	Phe	His	His	Leu	Pro		110	115	120
His	Leu	Leu	Ala	Lys	Glu	Ser	Ser	Leu	Gln	Pro	Ala	Val	Arg	Val		125	130	135
Gly	Gln	Gly	Arg	Thr	Gly	Val	Ser	Val	Val	Met	Gly	Ile	Pro	Ser		140	145	150
Val	Arg	Arg	Glu	Val	His	Ser	Tyr	Leu	Thr	Asp	Thr	Leu	His	Ser		155	160	165
Leu	Ile	Ser	Glu	Leu	Ser	Pro	Gln	Glu	Lys	Glu	Asp	Ser	Val	Ile		170	175	180
Val	Val	Leu	Ile	Ala	Glu	Thr	Asp	Ser	Gln	Tyr	Thr	Ser	Ala	Val		185	190	195
Thr	Glu	Asn	Ile	Lys	Ala	Leu	Phe	Pro	Thr	Glu	Ile	His	Ser	Gly		200	205	210
Leu	Leu	Glu	Val	Ile	Ser	Pro	Ser	Pro	His	Phe	Tyr	Pro	Asp	Phe		215	220	225
Ser	Arg	Leu	Arg	Glu	Ser	Phe	Gly	Asp	Pro	Lys	Glu	Arg	Val	Arg		230	235	240
Trp	Arg	Thr	Lys	Gln	Asn	Leu	Asp	Tyr	Cys	Phe	Leu	Met	Met	Tyr		245	250	255
Ala	Gln	Ser	Lys	Gly	Ile	Tyr	Tyr	Val	Gln	Leu	Glu	Asp	Asp	Ile		260	265	270
Val	Ala	Lys	Pro	Asn	Tyr	Leu	Ser	Thr	Met	Lys	Asn	Phe	Ala	Leu		275	280	285
Gln	Gln	Pro	Ser	Glu	Asp	Trp	Met	Ile	Leu	Glu	Phe	Ser	Gln	Leu		290	295	300
Gly	Phe	Ile	Gly	Lys	Met	Phe	Lys	Ser	Leu	Asp	Leu	Ser	Leu	Ile		305	310	315
Val	Glu	Phe	Ile	Leu	Met	Phe	Tyr	Arg	Asp	Lys	Pro	Ile	Asp	Trp				

320	325	330
Leu Leu Asp His Ile Leu Trp Val Lys	Val Cys Asn Pro Glu Lys	
335	340	345
Asp Ala Lys His Cys Asp Arg Gln Lys	Ala Asn Leu Arg Ile Arg	
350	355	360
Phe Lys Pro Ser Leu Phe Gln His Val	Gly Thr His Ser Ser Leu	
365	370	375
Ala Gly Lys Ile Gln Lys Leu Lys Asp	Lys Asp Phe Gly Lys Gln	
380	385	390
Ala Leu Arg Lys Glu His Val Asn Pro	Pro Ala Glu Val Ser Thr	
395	400	405
Ser Leu Lys Thr Tyr Gln His Phe Thr	Leu Glu Lys Ala Tyr Leu	
410	415	420
Arg Glu Asp Phe Phe Trp Ala Phe Thr	Pro Ala Ala Gly Asp Phe	
425	430	435
Ile Arg Phe Arg Phe Phe Gln Pro Leu	Arg Leu Glu Arg Phe Phe	
440	445	450
Phe Arg Ser Gly Asn Ile Glu His Pro	Glu Asp Lys Leu Phe Asn	
455	460	465
Thr Ser Val Glu Val Leu Pro Phe Asp	Asn Pro Gln Ser Asp Lys	
470	475	480
Glu Ala Leu Gln Glu Gly Arg Thr Ala	Thr Leu Arg Tyr Pro Arg	
485	490	495
Ser Pro Asp Gly Tyr Leu Gln Ile Gly	Ser Phe Tyr Lys Gly Val	
500	505	510
Ala Glu Gly Glu Val Asp Pro Ala Phe	Gly Pro Leu Glu Ala Leu	
515	520	525
Arg Leu Ser Ile Gln Thr Asp Ser Pro	Val Trp Val Ile Leu Ser	
530	535	540
Glu Ile Phe Leu Lys Lys Ala Asp		
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